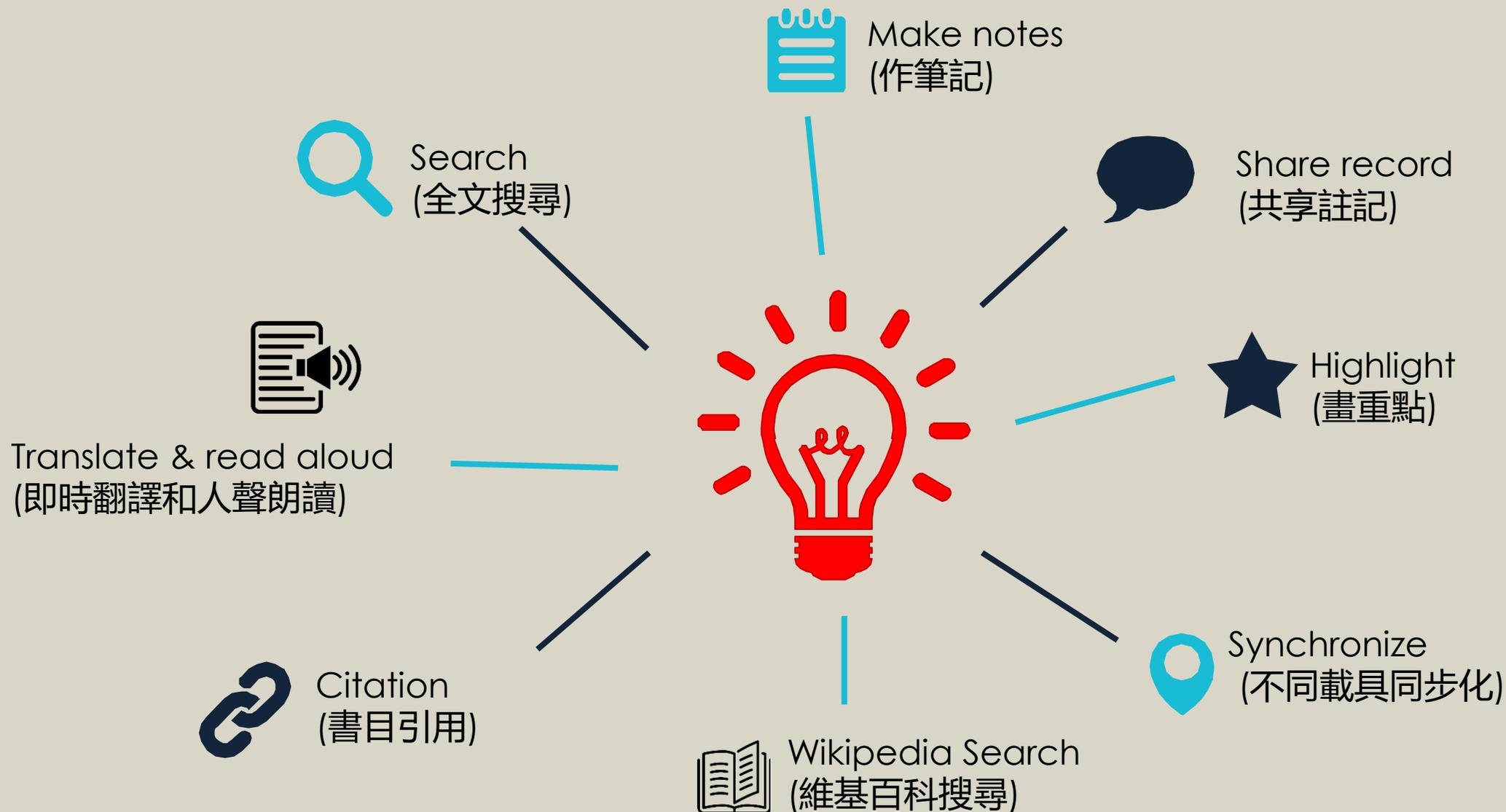


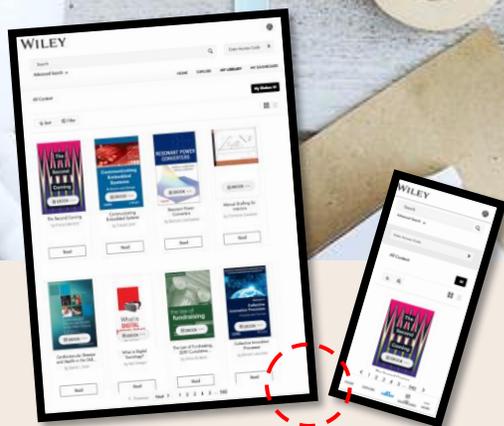


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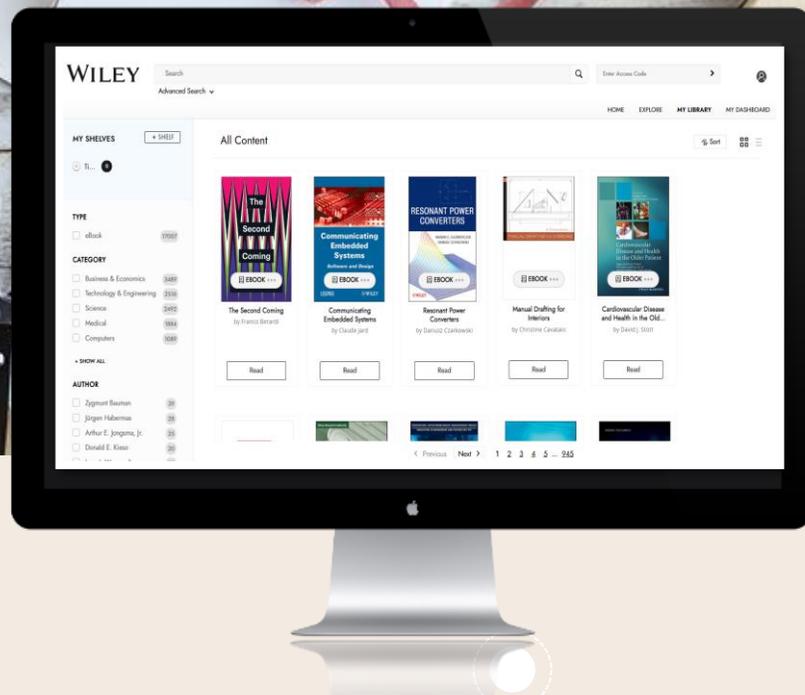
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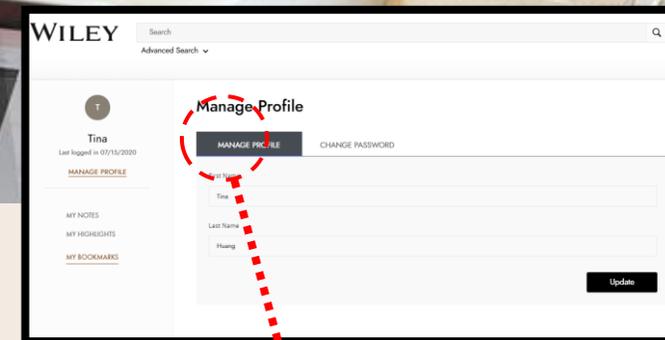
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## 首頁畫面

平台設計簡單直觀  
分類清楚明瞭

**New Platform 新平台展示**  
**(功能持續增加,敬請期待)**



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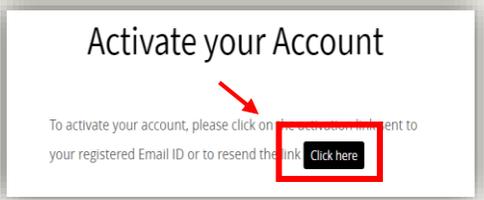
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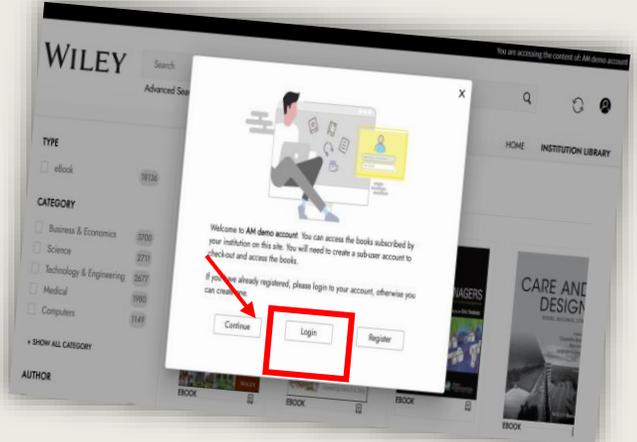
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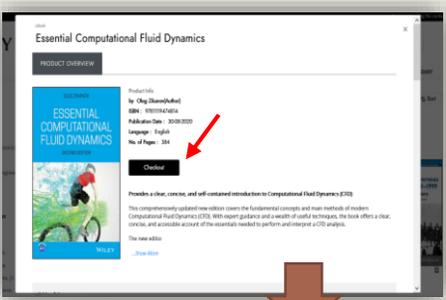
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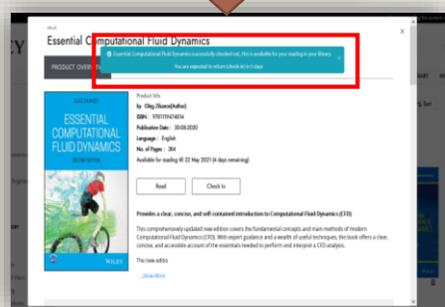
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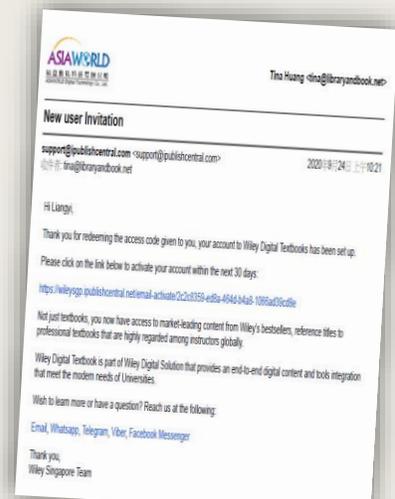
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**4.開始借書**  
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**【溫馨小提示】**  
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Big Data For Dummies

## Chapter 4

# Digging into Big Data Technology Components

**Bookmark**

**In This Chapter**

- ▶ Introducing the big data stack
- ▶ Redundant physical infrastructure
- ▶ Security infrastructure
- ▶ Interfaces and feeds to and from applications
- ▶ Operational databases
- ▶ Organizing data services and tools
- ▶ Analytical data warehouses
- ▶ Introduction to big analytics
- ▶ Introduction to big data applications

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和書籤功能

Highlight

As discussed in the first few chapters, big data is about high-volume and often high-velocity data streams with highly diverse data types. Many seasoned software architects address one or even two of these situations quite readily. For example, if you are faced with high-volume transactional data with fault tolerance requirements, you might be to construct an extensible meta-model driving a customized data warehouse.

However, you may not have had the luxury of creating specific deployments in a much more dynamic big data world. When you move out of the world where you own the hardware to create an architectural model for addressing this type of hybrid environment. This new environment requires an architecture that understands both the dynamic nature of the data and the ability to apply the knowledge to a business solution. In this chapter, we examine the architectural considerations associated with big data. We also dig a bit deeper into the big data stack.

### Exploring the Big Data Stack

Like any important data architecture, you should design a model that takes into account the hours of development and lots of frustration during the subsequent implementation. Good design principles are critical when creating (or evolving) an architecture. Considerations for hardware, infrastructure software, operational data, and application architecture will have to be able to address all the foundational requirements.

- ✓ Capture
- ✓ Integrate

**Add Note**

Seek clarification

Save Delete

Big Data For Dummies

## Chapter 5

# Virtualization and How It Supports Distributed Computing

**Text to Speech**

**In This Chapter**

- ▶ Defining virtualization
- ▶ Understanding the hypervisor
- ▶ Exploring abstraction and virtualization
- ▶ Implementing virtualization to work with big data

Highlight | Note | Wikipedia Search | **Read Aloud** | Translate

Virtualization is a foundational technology applicable to the implementation of both cloud computing and big data. It provides the basis for many of the platforms that are used to create and manage the distributed computing components in big data environments. Virtualization — the process of using computer resources to imitate the appearance of separate hardware — allows you to increase resource utilization, efficiency, and scalability. One primary application of virtualization is server consolidation, which helps organizations increase server utilization and reduce infrastructure costs. However, you find many benefits to virtualization. Companies that initially focused solely on server virtualization are now recommending virtualization for other types of infrastructure, including software, storage, and networks.

In this chapter, we define virtualization and provide insight into the benefits and challenges of virtualized environments. Our primary focus is on the benefits of virtualization.

### Understanding the Basics of Virtualization

Virtualization separates resources and services from the underlying physical delivery environment, enabling you to create many virtual systems within a single physical system. Figure 5-1 shows a typical virtualization environment. One of the primary reasons that companies have implemented virtualization is to improve the performance and efficiency of processing of a diverse mix of workloads. Rather than assigning a dedicated set of physical resources to each set of tasks, a pooled set of virtual resources can be quickly allocated as needed across all workloads. Reliance on the pool of virtual resources allows companies to improve latency. This increase in service delivery speed and efficiency is a function of the distributed nature of virtualized environments and helps to improve overall time-to-value.

```
graph TD; VM1[Virtual machine] --- VM2[Virtual machine] --- VM3[Virtual machine] --- VM4[Virtual machine]; VM1 --- VM2 --- VM3 --- VM4 --- VS[Virtualization software]; VS --- OS[Host operating system]; OS --- PH[Physical hardware];
```

**Translate**

Detected Language: English → Translate To: Indonesian

Peningkatan kecepatan dan efisiensi pengiriman layanan ini adalah fungsi dari sifat didistribusikan dari lingkungan virtual dan membantu untuk meningkatkan keseluruhan waktu-ke-nilai.

人聲朗讀、書內  
即時翻譯功能

Big Data For Dummies

# Virtualization and How

**In This Chapter**

- ▶ Defining virtualization
- ▶ Understanding the hypervisor
- ▶ Exploring abstraction and virtualization
- ▶ Implementing virtualization to work with big data

computing and big data. It provides the basis for many

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PUBLICATION YEAR:

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Other Highlights

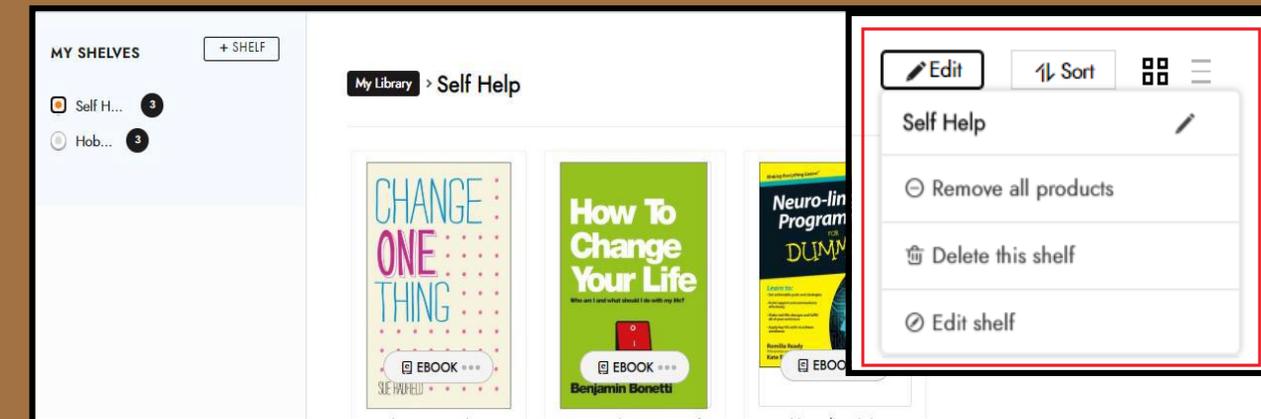
planets have a common origin that is solar nebula hypothesis. The solar nebula that the Sun, the planets, and other planets of the solar system originated at the same source through the collapse of a planetary nebula (a great cloud of glowing star), and have evolved in that time.

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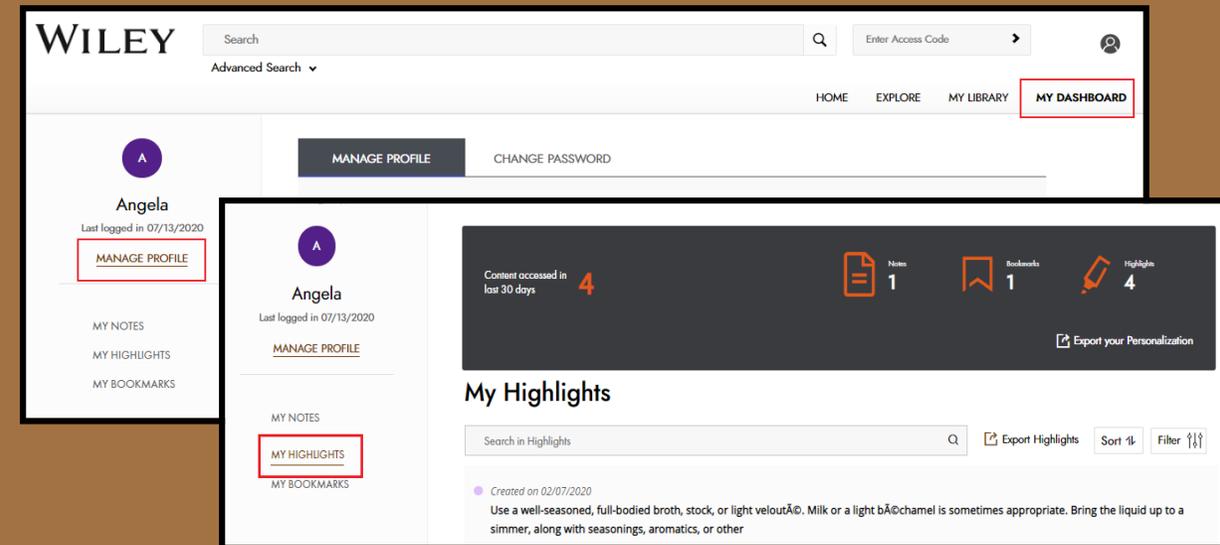


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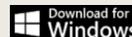
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- 需註冊個人化帳密
- DRM的限制：無法轉存和列印
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## 使用細節

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- 試用書量：20,000+,依實際開通數量為準
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